

## **FIRE EQUIPMENT MECHANIC I**

### **Class Definition**

Under close supervision, maintains and repairs Fire Department heavy equipment, apparatus, and related fire-fighting equipment.

### **Distinguishing Characteristics**

Fire Equipment Mechanic I is the entry level class in the Fire Department's Fire Equipment Mechanic series. Incumbents perform regularly scheduled maintenance and minor repairs, applying previously acquired mechanical skills while learning the special skills required to maintain and repair fire apparatus and related equipment. This class differs from Fire Equipment Mechanic II in that the latter is the journey level class in which incumbents are expected to complete maintenance and repair assignments without direct supervision.

### **Typical Tasks**

(This list is neither inclusive nor exclusive. Consequently, this information may not reflect essential functions or cover all duties which may be assigned for this class).

Maintains and repairs all Fire Department equipment and apparatus including engines, trucks, air brake systems and ladders; designs and constructs component parts and units necessary to the operation of equipment and apparatus.

Rebuilds parts, such as crankshaft, transmission mounts, brackets and clamps.

Performs simple fabrication tasks using lathes, shapers, drill presses, and welding equipment.

Fill self contained breathing air cylinders as needed.

Disassembles, repairs and tests pumps, air compressors, resuscitators, extension ladders, and related Fire Department equipment.

Assist Fire Equipment Mechanic II's with repair and overhaul of diesel and gasoline engines, ignition systems, air brake systems, transmissions, differentials, front and rear axle assemblies; repairs and installs hydraulic controls; tunes motors using standard testing equipment.

Performs related duties as required.

### **Knowledge, Abilities, and Skills**

Knowledge of the methods, materials, tools, and techniques used in the maintenance and repair of heavy equipment.

Knowledge of hydraulics and pump operations, air brake systems and electrical wiring systems..

Knowledge of the operating principles of gasoline and diesel engines, and of mechanical repair of trucks and firefighting apparatus and equipment.

Knowledge of the pertinent OSHA requirements, occupational hazards, and safety precautions of the trade.

Ability to diagnose defects in heavy equipment.

Ability to adapt available tools and repair parts to specific repair problems.

Ability to perform basic acetylene and electric welding.

Ability to interpret and work from sketches and pencil diagrams.

Skill in the use of drill presses, lathes, micrometers, calipers, and other standard tools and equipment of the machinist trade.

#### Minimum Qualifications

One year of experience as an Equipment Service Worker II assigned to heavy equipment with the City of Fresno, or the equivalent; or the completion of an approved heavy equipment apprenticeship program. Air brake and electrical wiring experience are highly desirable.

A Fire Equipment Mechanic I, after one year of employment with the City and upon recommendation of the appointing authority, may be promoted to Fire Equipment Mechanic II.

#### Necessary Special Requirements

Possession of a valid California Driver's License at time of appointment, and acquire a Class B California Driver's License within thirty (30) days of appointment and maintain a valid Class B California Driver's License for the entire term of employment in this class.

APPROVED: \_\_\_\_\_

Director

DATE: \_\_\_\_\_